

Appendix table 3-6.

**Occupational distribution of employed U.S. scientists and engineers, by level and field of highest degree: 1999**  
 (Percentages)

Field of highest degree	Number			Computer and math scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Engineers	Non-S&E occupations
		Total	Percent						
<b>All degree levels<sup>a</sup></b>									
<b>All degree fields .....</b>	10,981,600	100.0	10.6	3.1	2.7	3.3	12.5	67.8	
<b>S&amp;E degree fields .....</b>	7,980,100	100.0	11.5	3.7	3.6	3.7	15.1	62.4	
<b>Sciences .....</b>	6,043,700	100.0	11.8	4.9	4.5	4.9	2.2	71.9	
<b>Computer and math sciences .....</b>	1,045,800	100.0	47.5	0.1	0.4	0.2	3.1	48.6	
Computer and information sciences .....	586,500	100.0	60.1	0.1	0.1	0.0	2.5	37.1	
Mathematical sciences .....	459,300	100.0	31.4	0.2	0.8	0.5	3.8	63.3	
<b>Life and related sciences .....</b>	1,287,700	100.0	2.8	20.1	3.2	0.3	1.6	71.9	
Agricultural and food sciences .....	230,400	100.0	2.6	18.0	1.4	0.3	0.9	76.9	
Biological sciences .....	955,300	100.0	2.7	21.3	3.2	0.3	1.2	71.4	
Environmental life sciences .....	102,100	100.0	4.1	13.7	7.9	1.2	7.0	66.0	
<b>Physical and related sciences .....</b>	621,700	100.0	7.5	3.4	34.4	0.4	9.5	44.8	
Chemistry, except biochemistry .....	276,200	100.0	4.0	5.6	39.2	0.2	5.5	45.5	
Earth science, geology, and oceanography .....	152,800	100.0	4.9	1.4	42.0	0.3	7.2	44.1	
Physics and astronomy .....	144,000	100.0	18.5	1.4	26.6	0.2	19.1	34.1	
Other .....	23,500	100.0	3.2	3.3	10.5	S	5.2	75.7	
<b>Social and related sciences .....</b>	3,088,400	100.0	4.3	0.4	0.3	9.2	0.6	85.2	
Economics .....	406,500	100.0	6.8	0.6	0.5	8.0	0.7	83.3	
Political and related sciences .....	567,000	100.0	4.8	0.3	0.2	4.4	0.7	89.6	
Psychology .....	1,166,100	100.0	3.8	0.5	0.1	15.4	0.6	79.6	
Sociology and anthropology .....	592,700	100.0	2.1	0.3	0.1	6.0	0.2	91.3	
Other .....	356,100	100.0	6.1	0.3	1.3	3.4	0.5	88.3	
<b>Engineering .....</b>	1,936,400	100.0	10.6	0.3	0.8	0.1	55.4	32.7	
Aerospace and related engineering .....	76,300	100.0	9.2	S	0.6	S	45.1	44.7	
Chemical engineering .....	147,700	100.0	4.8	0.8	2.2	S	60.5	31.4	
Civil and architectural engineering .....	330,200	100.0	2.6	S	0.5	0.1	63.1	33.6	
Electrical and related engineering .....	587,000	100.0	22.0	0.1	0.3	0.1	51.1	26.3	
Industrial engineering .....	106,200	100.0	11.4	S	S	S	37.5	51.0	
Mechanical engineering .....	386,000	100.0	5.2	0.0	0.3	S	63.2	31.1	
Other .....	302,500	100.0	7.1	0.9	2.6	0.2	52.0	37.2	
<b>Non-S&amp;E degree fields .....</b>	3,001,500	100.0	8.3	1.4	0.4	2.2	5.6	82.1	
Business and management .....	728,700	100.0	17.5	0.7	0.6	1.0	10.9	69.3	
Education .....	618,100	100.0	0.8	3.5	0.4	0.7	0.5	94.1	
Health .....	452,900	100.0	6.8	1.0	0.4	3.5	1.3	87.0	
Other .....	1,201,800	100.0	7.0	1.0	0.3	3.3	6.6	81.8	

See explanatory notes, if any, and SOURCE at end of table.

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**Occupational distribution of employed U.S. scientists and engineers, by level and field of highest degree: 1999**  
(Percentages)

Field of highest degree	Number	Total	Computer and math scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Engineers	Non-S&E occupations
					Percent			
<b>Bachelor's</b>								
<b>All degree fields .....</b>	6,350,100	100.0	11.7	2.1	2.2	1.1	14.3	68.6
<b>S&amp;E degree fields .....</b>	5,866,100	100.0	10.4	2.1	2.3	1.2	14.2	69.8
<b>Sciences .....</b>	4,486,100	100.0	10.8	2.7	2.9	1.5	2.0	80.1
<b>Computer and math sciences .....</b>	742,700	100.0	43.2	S	0.4	0.2	2.7	53.5
Computer and information sciences .....	413,500	100.0	58.5	S	S	S	2.1	39.3
Mathematical sciences .....	329,200	100.0	23.9	S	0.8	0.4	3.4	71.4
<b>Life and related sciences .....</b>	947,000	100.0	2.9	10.9	2.9	0.2	1.7	81.4
Agricultural and food sciences .....	182,300	100.0	2.6	10.5	0.8	S	0.9	85.0
Biological sciences .....	686,000	100.0	2.8	11.0	3.2	0.1	1.4	81.4
Environmental life sciences .....	78,700	100.0	4.4	10.2	5.4	S	6.1	72.8
<b>Physical and related sciences .....</b>	380,900	100.0	7.3	2.4	24.3	0.3	10.5	55.3
Chemistry, except biochemistry .....	175,100	100.0	4.6	4.1	30.2	S	6.2	54.5
Earth science, geology, and oceanography .....	101,800	100.0	4.6	0.9	30.8	S	8.4	55.2
Physics and astronomy .....	66,900	100.0	21.4	1.3	10.4	S	24.0	42.8
Other .....	16,600	100.0	S	S	4.9	S	4.5	88.0
<b>Social and related sciences .....</b>	2,415,500	100.0	4.5	0.3	0.3	2.6	0.6	91.8
Economics .....	340,300	100.0	6.7	S	S	2.5	0.9	88.9
Political and related sciences .....	482,900	100.0	4.9	0.3	S	1.2	0.7	92.7
Psychology .....	794,500	100.0	4.2	0.4	S	4.1	0.7	90.5
Sociology and anthropology .....	525,200	100.0	2.1	S	S	2.1	S	95.2
Other .....	272,600	100.0	5.9	S	0.8	1.4	S	91.1
<b>Engineering .....</b>	1,380,000	100.0	9.3	0.2	0.6	0.1	53.8	36.0
Aerospace and related engineering .....	53,600	100.0	9.1	S	S	S	41.7	48.3
Chemical engineering .....	112,000	100.0	4.7	0.6	2.3	S	58.5	33.5
Civil and architectural engineering .....	247,000	100.0	2.1	S	0.2	S	62.1	35.5
Electrical and related engineering .....	407,400	100.0	20.7	S	0.2	S	50.0	28.8
Industrial engineering .....	79,500	100.0	8.8	S	S	S	33.9	57.2
Mechanical engineering .....	304,200	100.0	4.2	S	S	S	62.5	33.0
Other .....	175,800	100.0	5.0	0.6	1.6	S	46.0	46.7
<b>Non-S&amp;E degree fields .....</b>	484,000	100.0	26.6	2.6	0.5	0.7	15.3	54.3
Business and management .....	153,200	100.0	37.4	2.8	S	S	8.2	50.9
Education .....	59,100	100.0	4.5	4.9	S	S	S	86.7
Health .....	45,200	100.0	26.0	S	S	S	7.7	63.2
Other .....	226,500	100.0	25.2	2.1	S	1.1	24.8	46.4

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**Occupational distribution of employed U.S. scientists and engineers, by level and field of highest degree: 1999**  
 (Percentages)

Field of highest degree	Number	Total	Computer and math scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Engineers	Non-S&E occupations
					Percent			
<b>Master's</b>								
<b>All degree fields</b> .....	2,982,000	100.0	11.9	2.4	2.4	5.2	12.6	65.4
<b>S&amp;E degree fields</b> .....	1,491,200	100.0	16.7	3.8	4.3	7.4	19.3	48.6
<b>Sciences</b> .....	1,040,400	100.0	17.5	5.4	5.6	10.4	2.6	58.5
<b>Computer and math sciences</b> .....	262,600	100.0	55.4	S	0.4	0.4	4.2	39.5
Computer and information sciences .....	160,900	100.0	63.5	S	S	S	3.5	32.7
Mathematical sciences .....	101,700	100.0	42.6	S	0.8	0.8	5.3	50.4
<b>Life and related sciences</b> .....	164,100	100.0	2.4	30.7	5.2	0.4	2.0	59.4
Agricultural and food sciences .....	30,100	100.0	2.4	33.1	3.5	S	S	59.8
Biological sciences .....	116,200	100.0	2.3	31.7	3.7	0.3	1.0	60.9
Environmental life sciences .....	17,900	100.0	3.3	20.2	17.4	S	9.3	48.8
<b>Physical and related sciences</b> .....	113,900	100.0	9.4	3.7	40.6	0.7	9.4	36.2
Chemistry, except biochemistry .....	37,400	100.0	3.1	6.6	47.6	S	3.7	38.9
Earth science, geology, and oceanography .....	34,200	100.0	6.5	2.4	57.8	S	6.3	26.3
Physics and astronomy .....	32,500	100.0	20.5	S	23.8	S	19.8	35.6
Other .....	5,100	100.0	S	S	16.9	S	S	56.1
<b>Social and related sciences</b> .....	499,800	100.0	4.3	0.3	0.5	21.3	0.4	73.2
Economics .....	43,700	100.0	9.4	S	S	18.0	S	70.7
Political and related sciences .....	67,400	100.0	4.7	S	S	13.3	S	80.7
Psychology .....	276,100	100.0	3.2	0.3	S	27.7	0.4	68.3
Sociology and anthropology .....	44,400	100.0	2.4	S	S	21.2	S	75.9
Other .....	68,100	100.0	6.3	S	2.4	5.1	S	85.3
<b>Engineering</b> .....	450,800	100.0	14.8	0.2	1.2	0.2	57.7	25.9
Aerospace and related engineering .....	17,800	100.0	9.6	S	S	S	47.9	41.9
Chemical engineering .....	22,000	100.0	5.4	0.6	1.4	S	66.1	26.6
Civil and architectural engineering .....	73,300	100.0	4.3	S	1.1	0.5	64.1	29.9
Electrical and related engineering .....	151,300	100.0	26.3	S	0.3	S	52.4	20.8
Industrial engineering .....	23,500	100.0	19.5	S	S	S	48.0	32.2
Mechanical engineering .....	68,300	100.0	9.5	S	S	S	64.0	26.0
Other .....	94,600	100.0	10.3	0.8	3.7	S	59.1	26.0
<b>Non-S&amp;E degree fields</b> .....	1,490,800	100.0	7.1	1.0	0.6	3.1	6.0	82.2
Business and management .....	558,600	100.0	12.5	S	0.8	0.8	11.9	73.9
Education .....	113,600	100.0	2.0	5.9	1.5	2.7	1.2	86.7
Health .....	355,000	100.0	4.0	0.8	S	3.2	0.7	91.2
Other .....	463,600	100.0	4.2	1.1	0.5	5.9	4.1	84.1

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**Occupational distribution of employed U.S. scientists and engineers, by level and field of highest degree: 1999**  
 (Percentages)

Field of highest degree	Number	Computer and math scientists		Life and related scientists	Physical and related scientists	Social and related scientists	Engineers	Non-S&E occupations
		Total	Percent					
<b>Doctorate</b>								
All degree fields .....	736,700	100.0	9.1	16.4	11.5	17.2	11.4	34.3
S&E degree fields .....	614,600	100.0	9.6	19.2	13.7	18.8	13.4	25.2
Sciences .....	509,000	100.0	9.4	22.9	16.0	22.6	2.3	26.7
<b>Computer and math sciences</b> .....	40,600	100.0	76.4	0.9	0.8	0.4	3.5	17.9
Computer and information sciences .....	12,100	100.0	72.4	S	S	S	4.7	22.1
Mathematical sciences .....	28,500	100.0	78.1	1.2	1.1	0.5	2.9	16.2
<b>Life and related sciences</b> .....	176,200	100.0	2.3	60.0	3.0	1.0	0.7	33.0
Agricultural and food sciences .....	18,100	100.0	2.1	68.8	3.9	1.8	0.7	22.6
Biological sciences .....	153,100	100.0	2.3	59.4	2.5	0.8	0.5	34.4
Environmental life sciences .....	5,000	100.0	3.0	46.6	14.3	3.3	7.1	25.7
<b>Physical and related sciences</b> .....	125,900	100.0	6.4	6.1	59.2	0.3	6.9	21.0
Chemistry, except biochemistry .....	63,600	100.0	2.9	9.3	58.7	S	4.6	24.3
Earth science, geology, and oceanography .....	16,500	100.0	4.1	2.3	77.5	S	2.4	13.6
Physics and astronomy .....	43,800	100.0	12.6	2.4	53.9	0.5	11.4	19.1
Other .....	1,800	100.0	S	20.0	45.0	S	13.9	17.2
<b>Social and related sciences</b> .....	166,400	100.0	2.8	1.7	0.6	67.9	0.4	26.5
Economics .....	22,500	100.0	2.8	1.6	S	71.1	S	24.1
Political and related sciences .....	16,700	100.0	2.3	S	S	61.5	S	35.4
Psychology .....	88,800	100.0	2.1	2.2	S	75.6	0.4	19.7
Sociology and anthropology .....	23,100	100.0	2.4	0.9	0.5	63.6	S	32.3
Other .....	15,300	100.0	8.5	2.1	4.6	32.1	S	51.6
<b>Engineering</b> .....	105,600	100.0	10.7	1.5	3.0	0.2	66.4	18.2
Aerospace and related engineering .....	4,900	100.0	9.4	S	S	S	72.7	14.9
Chemical engineering .....	13,600	100.0	4.8	2.6	2.4	S	68.5	21.7
Civil and architectural engineering .....	9,900	100.0	3.9	S	1.8	S	80.4	13.8
Electrical and related engineering .....	28,300	100.0	18.1	0.2	2.1	S	60.4	18.9
Industrial engineering .....	3,300	100.0	16.1	S	S	S	47.8	34.4
Mechanical engineering .....	13,500	100.0	7.5	0.7	1.5	S	75.2	15.1
Other .....	32,100	100.0	9.7	3.2	5.3	0.4	63.8	17.6
<b>Non-S&amp;E degree fields</b> .....	122,100	100.0	6.4	2.3	S	9.4	1.7	79.8
Business and management .....	12,600	100.0	S	S	S	15.3	S	80.5
Education .....	S	S	S	S	S	S	S	S
Health .....	45,700	100.0	10.4	2.9	S	10.4	S	75.2
Other .....	63,800	100.0	4.4	2.3	S	7.5	2.9	82.9

S = suppressed for reasons of confidentiality and/or data reliability

<sup>a</sup> Includes professional degrees.

NOTES: Scientists and engineers include all those who have ever received a bachelor's degree or higher in S&amp;E plus those holding a non-S&amp;E bachelor's degree or higher who were employed in an S&amp;E occupation during either the 1993, 1995, 1997, or 1999 SESTAT surveys. Figures are rounded to nearest hundred. Details may not add to total because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), Science and Engineers Statistical Data System (SESTAT), 1999.